



06 May 1930

The Missouri Miner, May 06, 1930

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THE MISSOURI MINER.

Missouri School of Mines and Metallurgy, Rolla, Missouri.

Library
School of Mines

Vol. 16

Tuesday, May 6, 1930

Number 29

PROF. DEAN RESIGNS AS HEAD OF DEPARTMENT.

Prof. Dean definitely announced his resignation from the head of the Mathematics Department last week. He will continue to teach, but he plans to devote as much time as possible to his extensive research work. At present he is engaged in mathematical investigation of gyroscopic motion, with a view to applying the gyroscopic pendulum to geophysical prospecting. Professor Kilpatrick is constructing an instrument upon which important tests pertaining to the gyroscope, will be made this summer. This piece of research work when completed should prove of far reaching value to the engineering world.

At the suggestion of Professor Dean, Professor Hinsch was appointed the new head of the Department of Mathematics. Professor Hinsch has been teaching in M. S. M. for 15 years and is fully capable of filling his new position. He received his B. S. in Mining in 1909, after which he taught Mining in the Oklahoma School of Mines. He came to M. S. M. in 1915 as an Instructor of Mathematics and is now an Associate Professor of Mathematics.

Professor Dean has been teaching for 40 years, and for the last 33 years he has been the head of the department at M. S. M. He is one of the oldest, best known, and most popular professors on the campus and we expect to see him around for a good

Continued on page nine.

NEW SENIOR COUNCIL SWORN IN

Last Friday at the regular mass meeting hour, Dr. Fulton gave a brief but highly influential talk to the student body concerning the Senior Council, its activities, its responsibilities, and the service which it should bestow upon the student body of this institution.

Immediately following the address and instructions, the following men were sworn into office for the school year of 1930-31: Reid, Wallace, Donlon, Tompach, Hielig, Wade, Hangosky, Tieman, Elliott, Haggard, Aperson, Dowding, Hall, Hassler, Campbell, Huebner and Towse.

DR. L. B. HALL TO ADDRESS CHEMISTS WEDNESDAY.

Dr. Schrenk announces that he has secured Dr. Lawrence B. Hall as a speaker at the regular meeting of the Ira Ramsen Society to be held next Wednesday night, May 7. Dr. Hall is at present employed as research Chemist for the Mallinckrodt Chemical Co., of St. Louis.

Dr. Hall has spent a number of years in research and during this time he has made some very interesting discoveries. The subject of his talk for Wednesday will be "The Lead Content of Uranium Ore and the Age of the Earth." In his talk he will explain his unique but very logical method of determining the age of the earth. His determinations are based on the rate of decomposition of uranium in an uranium ore.

The meeting is primarily for chemists and those interested in chemistry, but Dr. Hall is a speaker of no mean ability and an interesting and instructive talk is assured. Everyone is most cordially invited to attend Dr. Hall's lecture at 7:30 tonight.

DOC. ARMSBY INTERVIEWS PROSPECTIVE STUDENTS

Last week "Doc" Armsby made a trip to St. Louis where he spoke to the seniors of the city high schools and also to those of Maplewood, Normandy, University City, Overland, Wellston, and Clayton. In his talks, the registrar gave the seniors an idea of what we have at M. S. M. There were approximately 400 requests for catalogs.

"Doc" Armsby also made a trip to Memphis, for a convention of the American Association of Collegiate Registrars on April 14-18. Having already served two years, he was re-appointed chairman of the committee on office forms and equipment.

It may also be of interest to some students, since they have no doubt heard some talk about a change in rules, to know that Dr. Fulton has appointed a committee on rules to make a study of the rules, suggest changes, and possibly simplify them. The committee will make its report to the

Continued on page two.

LEAD BELT ALUMNI MEET.

W. W. Weigel Elected
Next Toastmaster.

Friday night at the leading hotel in Desloge the Lead Belt Alumni were hosts to the senior miners and metallurgists. A. S. Perrier, '04, was toastmaster. Clarence G. Dresser, metallurgist of the National Lead Company at St. Francois, Mo., was the guest speaker of the evening.

Those of the alumni present were: M. L. Clark, '29, R. E. Woods, ex'30, H. M. Eaton, ex'31, J. E. Weber, '28, J. H. Steinmesch, '06, Anton Karte, '11, Geo. McCrory, '29, E. R. Tragitt, '23, L. A. Delano, '04, Roy Gunther, '27, H. A. Neustaedter, '16, W. W. Weigel, '20, E. T. Campbell, '23, A. S. Perrier, '04.

W. W. Weigel was unanimously elected toastmaster for the spring meeting of the Lead Belt Section for next year. Weigel is remembered by all of the alumni of '20 and there about, as one of the brightest men the school has ever turned out. He received both his Bachelor and Master's degree from MSM. While here he was a member of Tau Beta Pi, Phi Kappa Phi, and a member of Pi Kappa Alpha, social fraternity. At present Weigel is assistant mines manager for St. Joe Lead Co., and is located at Leadwood, Mo.

STATE MEET SATURDAY.

Seven track men and two tennis players will accompany Coach Grant to Columbia for the state meet to be held on Saturday, May 10th at Rollins Field. In Coghill, McCreight, Miller and Monroe, with Davis as an alternate, we have a mile relay team that has taken first in every meet this year. Davis will step the 100 and 220 yard dashes; while McCreight will take care of the 440. Monroe has bettered the state meet half mile record of 2:01.2 by 1-10 seconds, so we are counting on Rex. Coghill is slated for the low hurdles. Heiligman is high jumping close to 5 feet 10 inches, and Coffman vaults 11½ feet with ease. All of the men are in good condition and, although lacking in numbers, there is

Continued on page nine.

DOC. ARMSBY INTERVIEWS
PROSPECTIVE STUDENTS

Continued from page 1

faculty on Tuesday, May 6. There will be no radical changes in the rules. However, there will be a few minor changes which will be published in the new book of rules next fall. Although the changes will be of minor importance, they will be sufficiently important that every student in school is urged to obtain a copy of the new rules next fall and read them.



INTER - FRATERNITY STANDING

Team	Won	Lost	%
Prospectors	4	0	1000
Pi Kappa Alpha	3	0	1000
Lambda Chi Alpha	2	1	666
Mercier	2	1	500
Kappa Sigma	1	3	250
Kappa Alpha	0	3	000
Triangle	0	4	000

INTER-FRATERNITY GAMES

Mercier 10-Triangle 0

The Mercier nine completely blanked the Triangles in the first shut out game of the season, 10-0. With Pertice doing their twirling, he allowed only 4 scattered hits throughout the entire fray. The whole Mercier nine gave an exhibition of some of the best fielding displayed this season, with only one error marked up against them. Hoffner took care of home plate for the Merciers, while Hoeman and Prough alternated for the Triangles. The Merciers found Williams, the Triangle pitcher, for several nice hits during the game.

Prospectors 5-Kappa Sigs 2

It was entirely a pitchers battle from beginning to end with Malick, the Prospector twirler, allowing only two hits and Parker of the Kappa Sigs hurling one of the best games this season. "Bud" Walters helped the cause along for the Prospectors when he connected with the old apple for a circuit blow. Grayson of the Prospectors and Coffman of the Kappa Sigs, composed the receiving end

of the respective batteries. This game makes the 4th straight victory that the Prospectors have chalked up to their credit thus far.

Pi Kappa Alpha 17-Triangle 8

After a week or so of inactivity on the diamond, the Pi K. A.'s came out on the heavy end of the victory when they played the Triangles last Friday. Not much can be said about the game other than it was a nice chance for one to fatten his batting average. Hilton pitched his first full game for the Pi K. A.'s with Kirkpatrick behind the bat. Hartnagel and Williams alternated for the Triangles on the mound. Hawse was the leading hitter for the losers with 3 hits, while Offutt and Roy Towse were the leading sluggers for the winners.

TENNIS MEET STOPPED BY
DOWNPOUR OF RAIN.

The dual tennis meet was stopped by a heavy downfall of rain after only three of the six matches had been played off. The teams were evenly matched and the Miners were putting up a final effort to win the meet as the games were stopped.

Hanley had little trouble in annexing his match from Hyder in two straight sets with scores of 6-4, 6-2. Thoroughman was unable to hit his stride and was forced to drop his match to Kine in straight set 6-2, 6-3. Tieman easily won his first set from Coppage, but dropped the second and third after a hard fight. The scores were 1-6, 6-3 and 7-5. These three were the only matches completed before the rain.

Mertz had played two sets of his match, losing one and winning one from Gleason. In the doubles Hanley and Tieman were winning while Thoroughman and Mertz were losing, so there was no way to tell how the final score would stand. The meet will not be played off this spring but it is possible that the teams will meet again in the fall.

Hanley and Tieman will go to Columbia May 9-10 to compete for the Miners in the state meet. They will play both doubles and singles. At present Tieman and Mertz are to play a match to decide the school champions for the year.

FOUR RECORDS BROKEN AS
MINERS GO DOWN IN CLOSELY
CONTESTED MEET.

Again the lack of men in field events played havoc with the Miner team. As a result, Drury nosed them out to the tune of 69-65, in the dual track and

field meet here Tuesday.

The Miner's crack half-mile relay team continued to shine, setting a new meet record of 1 minute 35.6 seconds, over-shadowing the 1:37 mark made by the team of 1926. McCreight ran the 440 yard dash in 53.1 seconds to beat the 53.3 time of Rice, Drury, who set the record in 1929. Robb, Drury, beat the meet record of 10.1 seconds, set by himself in 1929, by running the 100 yard dash in 9.8. Robb also shattered the 440 record, set at 23.1 seconds by Harlan of MSM in 1928, making it in 22.3.

Although the Miner trackmen failed to take enough points to win, they did considerably better than they did against Springfield Teachers last week: All of which indicates a good chance at the state meet.

Track summary:

100-yard dash—Robb, Drury, first; Davis, Rolla, second; Schofield, Rolla, third. Time: 9.8 (new record).

220-yard dash—Robb, Drury, first; Davis, Rolla, second; Cutler, Rolla, third. Time: 22.3 (new record).

440-yard dash—McCreight, Rolla, first; Monroe, Rolla, second; Handley, Drury, third. Time: 53.1 (new record).

High hurdles—Talbot, Drury, first; Handley, Drury, second; Rolla disqualified. Time: 16.8.

Mile run—Stoneman, Drury, first; Cummins, Rolla, second; Latimer, Drury, third. Time: 4:54.2.

Two-mile run—Prock, Drury, first; Johnson, Drury, second; Horn, Rolla, third. Time: 11:42.9.

Low hurdles—Talbot, Drury, first; Coghill, Rolla, second; Sewell, Drury, third. Time: 27.2.

880-yard run—Monroe, Rolla, first; Latimer, Drury, second; Wilson, Rolla, third. Time: 2:7.7.

Half-mile relay—Won by Rolla. Time: 1:35.6 (new record).

Mile relay—Won by Rolla. Time 3:37.6.

Pole vault—Kauffman, Rolla, first; Davenport, Rolla, second. Drury did not qualify. Height 11 feet.

High jump—Bush, Drury, first, Heiligman, Rolla, and Sewell, Drury, tied for second. Height 5 ft. 7¼ in.

Discuss—Bush, Drury, first; Sutherland, Rolla, second; Lacy, Rolla, third. Distance 108 ft. 5½ in.

Shot put—Bush, Drury, first; Cook, Rolla, second; Lacy, Rolla, third; Distance 37 ft 4 in.

Javelin—Bush, Drury, first; Koch, Rolla, second; Reeves, Rolla, third. Distance: 160 ft. 3 in.

Broad jump—Robb, Drury, and Schofield, Rolla, tied for first; Dow, Drury, third. Distance: 19 ft 11 in.

HEPSIDA'S COLUMN.

Dear Hepsida:

For some time past I have been bothered by some strange and disquieting troubles.

My appetite is gone, I seldom feel like eating and I can sit for hours in idle solitude. My ambition is gone and my general bearing is one of bored indifference. Nothing seems to matter and I experience a feeling of emptiness in my stomach without even looking at a girl.

Am I in love and don't know it?

Your

WORRIED "WHITIE"

Dear Hepsida:

Why does a girl close her eyes when she kisses me?

Yours truly,

"Harkie"

Dear Harkie:

This is a question that has been asked ever since man has taken up kissing as a pleasure, duty, or a means of self protection.

"Send us your photograph and maybe we can tell you," is the usual answer, but I don't hold to that. I believe the chief reason is that girls don't want to become cross-eyed

watching you.

Sincerely yours,

Hepsida.

Dear "Whitie":

As I see it there is one cure for your troubles. You are not in love, but almost as bad. You are suffering from indigestion.

Consult "Doc" and he can fix you up with "C. C." pills since mercuricrome can do you no good.

This treatment, I am sure, will fix you up and eliminate your troubles.

Yours for action,

HEPSIDA

Dear Hepsida:

My parents tell me I am in the awkward age. Just what do they mean by this?

Truly yours,

J. T. M. S.

Dear J. T. M. S.:

The awkward age is that period when you are too old to cry and too young to swear.

Sincerely,

Hepsida.

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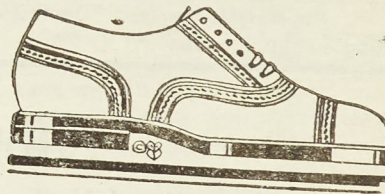
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THE MISSOURI MINER

A weekly paper published by the students in the interest of the Alumni, Students, and Faculty of the Missouri School of Mines and Metallurgy, Rolla, Missouri.

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Mother.

As the national Mother's Day approaches let us stop in the midst of our busy lives and pay a silent and sincere tribute to Mother. Let us remember and dwell upon that word "Mother", all that it implies, all that it represents; the unselfish love of the world's most wonderful woman.

Was it not your own dear mother who went through all the pain and suffering of bringing you into this world? Was it not her unswerving love and patience that took you into the very core of her heart, shaped that early "animal stage" of your being into a period of constructive learning and reliability? To her you owe all that you are; for you represent the price of her sacrifice, the best years of her life, given to you that you might meet this world with a full knowledge of its dangers—and its priceless treasures.

Every mother has her particular individual qualities, but after all, is not the word "Mother" sufficient to include all these traits, just as her great love is sufficient to subdue and sooth all contrary circumstances? Let us then pay the greatest of tributes to Mother, to her unselfish devotion, sacrifice, and love, by making an honest effort to live the life that she, in all her dreams has lived for us.

IN REPLY

From an incoherent and somewhat melodramatic article appearing in a recent Miner, I gathered seven choice bits of misinformation. As a rule I am glad to have any of my opinions criticized, but not when the criticizer wanders through the brush sprouting about, suckers, traitors, oaths, selfishness and politically ambitious groups.

The seven statements I have objection to are as follows:

(1) The Independents are playing sucker to two politically ambitious organizations. The Independents are playing ball with the two fraternities. That is what they started out to do. I cannot see that anyone is getting gyped, except the members of the interfraternity league.

(2) There has always been an open fight between the Independents and the fraternity combine. That is not true. If the writer of the previous article would make more certain of his information he would make fewer mistakes. There has generally been at least one fraternity on the campus on the side of the Independents. That is when the Independents throw their hats into the ring.

(3) That it is not fair to have ten representatives on the Senior Council, and only two baseball teams. What relationship is there between the Senior Council and Intramural Sports. The Council is to aid in the governing of the freshmen, and to safeguard the interests of the student body. Intramural sports are to promote athletics. Are you saying we must have ten teams, because we have ten members of the Senior Council. That is like saying Phelps county has so many ball teams, therefore they shall have the same number of representatives in the House at Jefferson City.

(4) That the two fraternities were traitors once, and may be again. That is untrue. Why not give a little proof of your statement.

(5) That the Independents are party to two politically ambitious groups. My reply is: People who live in glass houses should not throw stones.

(6) That unless the Independents take warning and be good, and let the fraternity combine run things, all the power they now possess will be taken from them.

Now just how will that be done, and who in the—will do it.

(7) That the writer of the article speaks for the UNANIMOUS opinion of over 200 fraternity men and a few Independents. The few Independents are mighty few. I have been to every Independent meeting this year, and have heard one Independent express

an unfavorable opinion on the present policy of the group.

As for the unanimous opinion of over 200 fraternity men, he may be a mind reader but I doubt it.

The main reason that I write this article is to object to the rather liberal statements made by the fraternity representative. This article is not to be a so called "hot" one, but more to express my opinion on the previous one. If anyone agrees with me I would be glad to hear of it.

R. T. WADE.

THRU THE TRANSIT

By "Squint" A. B., C. D., E. F. G.

Hey, hey, as the college boys say, it won't be a lengthy period of time now. Soon we'll be leaving all our hard work and worry and be off to ten hours a day with a pick and shovel for our beans and bread. Its a great life.

The freshmen's pants stay up better with belts now than they did prior to last Wednesday. We have also noticed a mighty out cropping of unwashed upper lips since the seniors

have gone on their inspection trips.

Last Wednesday night we saw a terrible example of what the force of habit will do. "Jenks" was caught slipping into the dance via the back door.

That, by the way, was a good dance. Very quiet and peaceful. It was really credit to the freshman class, to the whole school in fact. There was none of the boistrousness present that one finds in the gatherings of art school students, lawyers, and other "hoi poloi," just a big happy family of engineers out for a lark.

There have been many painful 'tales' circulating about the campus this week. It is rumored that most of them originated at the Q. V. initiation.

This week's prize money goes to whoever submitted the word 'corn-bone' to our new-word contest. A corn-bone is a musical instrument embodying all the worst features of the cornet and trombone. If fore mentioned submitter will call at the office for the prize money he will be greeted with outstretched hands (a black jack in each one of them).

We attended the Drury track meet last week and learned that the 220 that Chick did so much yelling about was a race and not a train.

Just as an after thought, we would like to ask Lieut. Winslow what the time was on the shot put.

Some animals lose their sense of smell with age, but there is nothing that can smell like an old egg.

Our Boy Scout division finally took the offensive against the enemy. The "battle" would probably be called a crawl for the enemy was very contrary and could not be found. If our boldness would be pardoned, we would suggest that a good way to annihilate the enemy would be to get them between our forces and the gym and then give the command, "Dismissed."

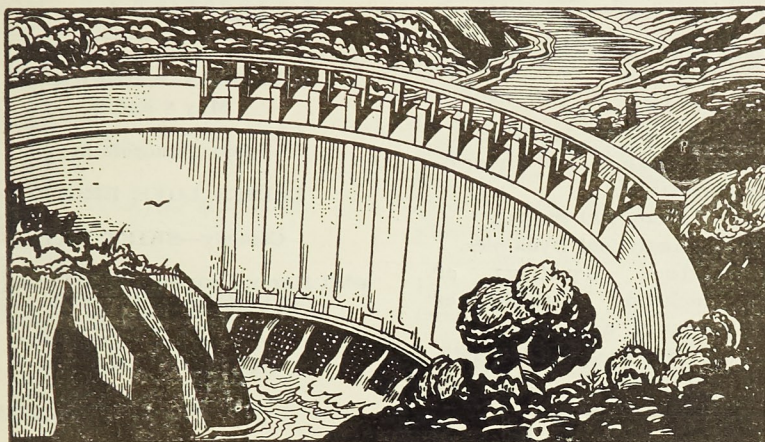
ADVANCED MATHEMATICS

By George R. Dean.

The question "What is there after calculus?" meaning the required course, including engineering mechanics, has often been asked. There is a whole lot. After a brilliant student has applied himself vigorously for two years, he is ready to begin the study of mathematics. Anyone who wants to apply mathematics to the solution of problems in physics, chemistry and engineering must first study it seriously for its own sake. It means hard, grinding work.

To produce a professional mathematician, I would suggest the following, taking each subject at least five

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hours a week in the class room, and ten hours outside, for two semesters. The way is long and steep. Drink deep or touch not the Pierian spring. The first six courses ought to be taken in this order. Afterwards the order is nearly indifferent.

1. A general review of the required courses with more advanced work.

2. Modern Higher Algebra, including

Theory of Equations

Theory of Determinants and Matrices

Theory of Invariants

3. Vector Analysis and Quaternions with application to Geometry and Mechanics.

4. A general course in Advanced Calculus, including an elementary course in Differential Equations.

5. Differential Equations, advanced, including ordinary and partial differential equations.

6. Functions of a Complex Variable, with applications to complex integration and the theory of differential equations.

7. Theory of Functions of Real

Variables.

8. Harmonic Functions, including Fourier Series and Integrals, Spherical, Zonal, Cylindrical Harmonics, Lamé's functions and others.

9. Theory of Probability and applications to Statistics, Statistical Mechanics, Insurance, Dynamical Theory of Gases, Quantum Theory, Wave Mechanics, etc.

10. Differential Geometry, i. e. application of differential and integral calculus to the theory of curves and surfaces.

11. Elliptic Integrals and applications.

12. Elliptic Functions, an immense subject.

13. Calculus of Variations.

14. Calculus of Finite Differences.

15. Integral Equations and Integro-Differential Equations.

16. Advanced Analytical Statics.

17. Advanced Analytical Dynamics.

18. The General Equations of Dynamics, including methods of Hamilton, Lagrange, and Jacobi.

19. Mathematical Theory of Elasticity, with applications to engineering

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PROGRAM

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Ricardo Cortez in

THE LOST ZEPPLIN

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THURSDAY AND FRIDAY

May 8 and 9

Geo. Bancroft in

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SATURDAY, MAY 10

Matinee and Night

Evelyn Brent in

FRAMED

Comedy—The Barbers Daughter

Matinee 10 and 25c Night 10 and 35c

SUNDAY, MAY 11

Matinee and Night

Joe E. Brown and Helen Foster in

PAINTED FACES

Fox News and Fables

Matinee 10 and 25c Night 10 and 25c

problems.

20. Mathematical Theory of Electricity and Magnetism, including Theory of Electrons, and Quantum Theory of the Atom.

21. Mathematical Theory of Heat Conduction.

22. Mathematical Theory of Thermodynamics.

23. Theory of Relativity, Special and General, Einstein's and others.

24. Partial Differential Equations of Mathematical Physics.

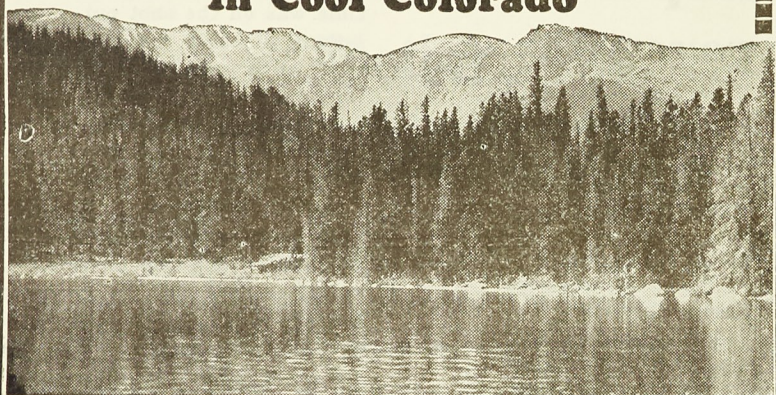
25. Celestial Mechanics and Theoretical Astronomy.

26. The Absolute Differential Calculus, otherwise Tensor Calculus.

27. Theory of Fluid Motion or Hydrodynamics.

And the end is not yet.

Study Engineering In Cool Colorado



Golden is at the foot of the Rocky Mountain Range. Twelve miles to the east lies Denver, with 325,000 inhabitants. To the west is the great Continental Divide, with streams and forests and snow-capped peaks rising to the sky.

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June 30 to August 22, 1930

This Summer Session is given especially for students who wish to make up work or to secure additional credits. All work is conducted by the regular Faculty of the School of Mines. For catalog of the Summer Session, write to the Registrar for Booklet Z-12.

Colorado School of Mines Golden, Colorado

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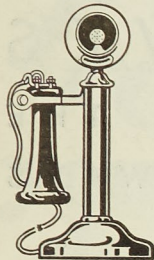
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7th & Pine

KAPPA SIG DANCE.

Once more and for the last time this year the Kappa Sigmas threw a dance. The current invigorating atmosphere and the melodies and spontaneous harmony of the Varsity Orchestra, caused the dogs to vibrate with great and lasting rapidity. Approximately eight seniors made their farewell bow to Rolla society.

The chaperons were Prof. and Mrs. Lloyd and Lt. Winslow.

THIRTY-TWO FRESHMEN

HONORED.

One of the greatest honors that can be bestowed on any member of the freshman class, is that of being one of the upper-fifth of his class. Selection to this group is based on the composite of placement examinations, first semester grades, personnel records and departmental recommendations.

One does not have to be an extraordinary student, but he, or he, must be a well rounded student.

On the bases of general ability the following freshman have been selected as constituting the upper fifth of that class:

Armstrong, J. R.
 Beckwith, W. B.
 Beinlich, J. J.
 Borchers, R. W.
 Braentigam, R. L.
 Cavis, G. A.
 Carters, E. M.
 Musson, G. H.
 Krattly, H. W.
 Latham, R. H.
 Levy, S. B.
 Martin, J. D.
 Mertz, E. R.
 Miller, B. K.
 Dresser, T.
 Federaw, H.
 Green, R. S.
 Grimm, Miss Leona
 Hauley, R. B.
 Helmkamp, A. R.
 Hesse, A. H.
 Hawes, J. H.
 Hubbard, C. R.
 Parker, R. A.
 Pecco, J. J.
 Rodd, Chas.
 Rodgers, W. M.
 Rolufs, L. S.
 Rosenbaum, C. R.
 Smith, J. T. M.
 Warren, G. M.
 Woodman, Miss Ellen

R. O. T. C. UNIT RATED

"SATISFACTORY."

The annual inspection of our local R. O. T. C. unit last Wednesday afternoon went off very smoothly,

everything considered, and our local boys won the rating of satisfactory.

The inspecting officer was First Lieutenant Maybien H. Wilson of the Engineer Corps. The parade, drills and formal inspection started at 1:45 and the various groups were dismissed anytime between 3:30 and 5. After watching inspection it was concluded that the local unit was pretty good and we hope that they will continue their good work, improving each year.

NEW UNIFORMS FOR

R. O. T. C. UNIT.

The military department has just forwarded a requisition for the new improved uniform for the Basic R. O. T. C. The uniform will consist of trousers, coat and cap made of a light material of the olive drab color called gabardine. The coat is of the roll collar type with the lapels faced in sky blue material. The cap is of the type known as 'overseas.' These uniforms will come in stock sizes but the workmanship, fit and material will be superior to the present old style garments.

These uniforms will be here for use at the beginning of the school year in September. No change in the uniform for the Advanced Course is contemplated for the next year at least, with the exception that there will be an increase in the amount allowed for the purchase of the uniform and equipment.

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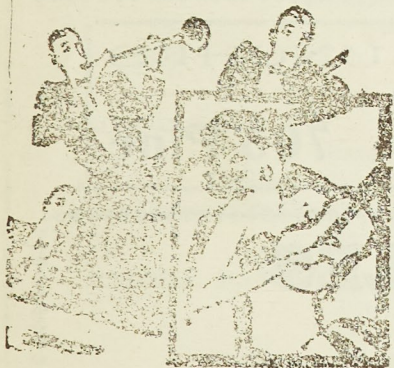
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STATE MEET SATURDAY.

Continued from page one

no lacking in their ability.

Handly and Tieman will leave Thursday evening, enabling them to start in the tennis tournament Friday morning at 10. Both men are going full stride and have the best of chances win.

PROF. DEAN RESIGNS AS HEAD OF DEPARTMENT.

Continued from page one.

many more years. His never failing interest and ability in mathematical work has brought him much fame in the mathematical world.

He entered M. S. M. as a student in September of 1888 and received his degree in Civil Engineering in 1890 and added a B. S. in Mathematics and Physics to this in 1891. He was an instructor in mathematics at M. S. M. from 1889 until 1891, after which he filled the positions as professor of Mathematic and Science at Maryville Seminary, Professor of Mathematics and Civil Engineering at Coe College, and Instructor in Mathematics at Central High School before he again returned to M. S. M. in 1897.

During his stay at M. S. M. he has published numerous papers on mathematical subjects in such magazines as "Annals of Mathematics" "General Electric Review," and the London Electrician.

His latest research pertaining to the gyroscope is the most important, and we have plenty of faith in his ability to solve the problem.

FROSH HOP HUGE SUCCESS

Last Wednesday the freshmen gave their last dance of the year, and contrary to the usual run of dances, its success was not due to the great influx of out of town guests. It was a success, however, and all the credit goes to the handful of local dates who were there showing plenty of the old spirit and pep, all of which goes to put any dance over.

Every Miner had a most enjoyable evening and had they been rated, each one would have rated as one of the "four out of five who have it."

Reeves and his Russians were there with music fit for the kings.

But all good things must end and about one o'clock the orchestra called it a day. Everyone departed for home and points east, declaring this dance to be even better than the first.

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